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(54) LAMINATION TYPE ELEMENT FOR MICROWAVE

(57) Abstract:

PURPOSE: To obtain the small sized lamination type element manufactured by an easy baking condition and having an excellent microwave characteristic by employing a specific Ag/Pd alloy to part or all of a conductor.

CONSTITUTION: The lamination type dielectric resonator has a structure that each of strip line conductors 2-4 is inserted between dielectric layers 1 to incorporate a shield conductor and a coupling capacitor as a lamination microwave element. The inner conductors 2-4 of the lamination type dielectric resonator are arranged at a prescribed interval via the dielectric layer 1 and they are connected respectively to an external electrode 5. All or part of the conductors 2-4 is made of an Ag/Pd alloy including 80wt.% or over of Ag. That is, the Ag/Pd alloy with a higher conductive rate comparatively except Ag,Cu,Au is employed for the conductors 2-4 of the microwave lamination type element, then a temperature at which simultaneous baking is attained is increased up to nearly 1050°C, the environment control is not required, the selection of the dielectric layer 1 is extended and the dielectric body having a higher dielectric rate and a higher no load Q value is used for the dielectric layer 1.